CATARACT DIAGNOSIS & TREATMENT
Vision and Aging

Driving (source of independence)

Reading

MORE THAN 28 MILLION AMERICANS OVER THE AGE OF 40 HAVE EYE ABNORMALITIES THAT PUT THEM AT RISK FOR VISION LOSS OR BLINDNESS
Myths About Vision and Aging

• "Although eyeglasses make you see better, they cause vision to get worse over time. Eyeglasses will need to be constantly changed with higher powered one."

• "Don't wear your glasses so often, you need to exercise your eyes!"
Common Myths About Vision You May Have Heard........

“Overuse Of The Eyes Will Make Them Weaker”

“Sitting Too Close To The TV Will Damage Your Eyes”

“Reading In The Dark Will Damage Your Eyes”

“Eye Exercises Can Improve Your Vision”
Cataracts

- Very Common After Age 60
- Leading Cause Of Blindness Worldwide
- 20.5 Million Americans Have Visually Significant Cataracts
Myths About Cataracts?

• "Vision improves in older people as they gain second sight"

• "A cataract is a new growth inside the eye"

• "Cataract has to become 'ripe' before it can be removed"

• "Cataract is removed using lasers"
What Is A Cataract?

• Clouding Of Natural Lens
• #1 Cause = Aging
• Other Causes - Medication, Trauma, Diabetes, Congenital
• The Eye Works Like a Camera
• Normal Human Lens Focuses
• Cloudy Lens (Cataract) Keeps Light From Focusing Clearly On The Retina
Cataract Symptoms

- Blurred Vision
- Glare
- Change In Color Vision
- Halos
- Double Vision
- Eyeglass Prescription Change
View Through A Cataract

View Through Clear Lens

Clouded View Through Cataract
Cataract Treatment Options

- Continued Observation
- Prescribe Stronger Glasses
- Cataract Removal With Intraocular Implant (IOL)
Traditional Cataract Surgery

• Phacoemulsification
• Small Incision
• Topical Anesthesia
• No Patch
• No Stitches
• Faster Recovery
The **LenSx** laser is a femtosecond laser that gives Drs. Del Negro and Senft computer controlled precision, allowing more accurate performance of some of the key steps of cataract surgery.
The Alcon LenSx® Laser
Laser Custom Cataract Surgery
• Through the incision, the surgeon inserts an instrument, about the size of a pen tip, to break up and gently remove the cloudy lens.
Implantable Intraocular Lenses (IOL)

- Introduced in 1949
- Many Shapes and Sizes
- Foldable Lenses Inserted Through Small Incisions (AcrySof)
- Over 21 Million Since 1994
- Excellent Results and High Level of Patient Satisfaction
• Insertion of Foldable Intraocular Lens Through Small
Removal of Cataract:

The surgery is not done with a laser. It is removed by ultra-sound.

The cataract is broken up into thousands of tiny pieces.

Once the cataract is removed you have lost 1/3 of the eye’s natural ability to focus.

To restore vision a new, artificial lens must be implanted.
A “brunsescent” or advanced cataract, removed from a patient in Africa
Cataract Surgery

Total surgery time is typically less than 15 minutes.
You can go home the very same day.
Monofocal IOLs

Standard Option of Improving Vision

Quality Distance Vision

Reading Glasses or Bifocals Required for Near Vision
Many new advances in cataract surgery have been made over the past few years:

- Wavefront IOL’S
- Aspheric IOL’s
- Multifocal IOL’s
- Filtered IOL’s (Blue Blocker)
- Advanced laser treatment for fine tuning
- Limbal Relaxing Incisions
- LASER CUSTOM CATARACT SURGERY
AcrySof Natural Lens

Approximates natural filtration properties of healthy human lens

Provides excellent quality of vision and restores vibrancy of colors

Transparent yellow - the color necessary to filter blue light
The AcrySof® ReSTOR® IOL
An Opportunity For Visual Freedom

Addresses Cataract Patient With Or Without Presbyopia

Allows Patients A High Level Of Freedom From Glasses In Clinical Trials

Nearly 94% of Patients Who Had the Acrysof Lens Said they Would Do So Again
ReSTOR®
an accommodative IOL

- Ideal for those who wear bifocals or readers and want to see close up without them.

- The natural lens of the eye is surgically removed. Implanted in its place is a sophisticated IOL with multiple focusing capabilities.

- This IOL features **concentric rings** which allow focusing at several different ranges.
# Multi-Focal LenSx Laser Cataract Surgery

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<thead>
<tr>
<th>Procedure Type</th>
<th>What Do You Want?</th>
<th>How Much Astigmatism Do You Have?</th>
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<td>Multi-Focal LenSx Laser assisted Custom Cataract Surgery With ReSTOR/Crystalens</td>
<td>Best Distance And Near</td>
<td>Low</td>
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<tr>
<td>- ReSTOR, Crystalens Multifocal Intraocular Lens</td>
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<td>- LenSX-Cataract Laser Assisted Custom Surgery with Astigmatism Correction (if necessary)</td>
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<td>- Pentacam Corneal Analysis</td>
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<td>- 6 Month Clinical Care Component</td>
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*Whether you have "high" or "low" astigmatism will be determined by your surgeon based on the results of your pre-operative testing.*
# LenSx Laser Cataract Surgery

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The new ReSTOR 3.0®

- FDA approved December 23rd 2008
- New lower add power of +3.00 is better for younger patients under age 75
- Regular ReSTOR has a +4.00 add power and will now be recommended for patients age 75 and over.
- Mix and matching the two IOL’s is desirable. You can put a +3.00 add in 1 eye and a +4.00 add in the fellow eye.
- Good results in Europe and Canada with this over past 4 months with the mix and match technique
- Intermediate!!!!
Thanks to the technology of the ReSTOR® Replacement Lens, Jeanne can now "read the NY Times in good light, and go to the beach without glasses". Six months after her procedure, she happily reports, "I can do almost everything without glasses."

Drawing on her experience, she urges her friends who are interested in, or still contemplating, cataract surgery, "Do it! Dr. Del Negro is excellent."

-Jeanne B. McArthur, ReSTOR® Replacement Lens Surgery performed by Dr. Ralph G. Del Negro, June 2010
AcrySof ReSTOR IOL And Tecnis Multifocal IOL

Provides a Full Range of Vision
Decreases Dependency on Glasses
## Toric LenSx Laser Cataract Surgery

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Alcon Toric IOL

Intraocular IOL specifically designed to neutralize patient’s astigmatism

New generation of premium IOL with axis marker on the IOL

Blue blocker filter (yellow lens)
Toric Lens
The Toric IOL is customized for each individual patient's astigmatism.
I am 20/ecstatic! ...Dr. Del Negro is the only doctor I would entrust with my vision.

Nancy wore glasses for 50 years before selecting Dr. Del Negro as her surgeon and opting for the Toric® Lens. Her objective was to “see clearer and not to have to wear glasses/contacts” for distance vision.

“I can see across a room or out a window without putting on glasses. I can walk in the rain and not be bothered with rain drops blocking my vision. I can now virtually do everything without glasses for the first time since I was 12 years old”.

-Nancy C. Kazimir, Toric® Lens
Surgery performed by Dr. Ralph G. Del Negro, 2010
Cataract surgery Post op eye drops

1. Antibiotic
2. Steroid
3. Anti inflammatory
Laser Custom Cataract Surgery

"I'm very, very pleased! I can't believe the difference in what I can now see without glasses. I don't even need them to read. I healed very quickly with no discomfort.

When I go to sew or mend I can get the thread right through the needle. In the past I had to work at it.

Driving at night is much better--the red and green lights don't look like fireworks anymore, they look like round circles again. I am now doing as much driving as I did when I was working."

Laser Custom Cataract Surgery with the Toric® Lens Surgery Performed by Dr. Ralph Del Negro 2013
Vision for the Way You Live!

Reading a Book or Menu
Driving – Day or Night
Working on Computer
Playing Golf or Tennis
MACULAR DEGENERATION
WET MACULAR DEGENERATION

SIGNS OF WET MACULAR DEGENERATION
Directions

1. With your reading glasses on, test ONE eye at a time while holding grid at normal reading distance.
2. Look at the dot in the center of the page for three seconds with each eye.
3. All the lines should be straight.
4. If the lines become wavy, or if part of the grid is missing, notify you doctor.
5. Test each eye for three seconds, once per week.
VISION WITH MACULAR DEGENERATION
GLAUCOMA
VISION WITH GLAUCOMA
VISION WITH GLAUCOMA
Horseshoe Retinal Tear
Questions?